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**Claim Amendments**

1. (Amended) A differential transistor pair circuit having resistive load elements ~~connected~~ coupled to collectors thereof, the improvement comprising:

an inductor coupled in series with each of the resistive load elements, such that the inductors are coupled to each other by mutual inductance.

2. (Amended) The differential transistor pair circuit of Claim 1 where the inductors are ~~connected~~ coupled out-of-phase at to the collectors of the transistors.

3. (Original) A differential circuit having a compound load, comprising: a differential pair of transistors having emitters coupled together; a load resistor coupled to a collector of each transistor; and an inductor coupled in series with each of the load resistors, where the inductors are magnetically coupled together.

4. (Amended) The differential circuit of Claim 3 wherein the inductors are ~~connected~~ coupled out-of-phase at to the collectors of the transistors.

5. (Original) The differential circuit of Claim 3 further comprises a common current source connected to the emitters of the transistors.

6. (Original) The differential circuit of Claim 3 wherein a differential signal of

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opposite polarity is applied to bases of the transistors.

7. (Original) The differential circuit of Claim 3 further comprises a buffer stage operable to reduce loading of the collectors of the transistors.

8. (Amended) A method for increasing bandwidth of a differential transistor pair circuit having resistive load elements ~~connected~~ coupled to collectors thereof, comprising:

connecting an inductor in series with each of the resistive load elements; and magnetically coupling the inductors together.

9. (New) A differential circuit having a compound load, comprising: a differential pair of transistors having emitters coupled together; a load resistor coupled to a collector of each transistor; and a transformer having a pair of inductors coupled to each other by mutual inductance and each coupled in series with one of the load resistors.

10. (New) The differential circuit of Claim 9 wherein the inductors are coupled out-of-phase to the collectors of the transistors.

11. (New) The differential circuit of Claim 9 further comprises a common current source connected to the emitters of the transistors.

12. (New) The differential circuit of Claim 9 wherein a differential signal of

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opposite polarity is applied to bases of the transistors.

13. (New) The differential circuit of Claim 9 further comprises a buffer stage operable to reduce loading of the collectors of the transistors.